

WHAT IS CLAIMED IS:

1. An image printing apparatus which prints an image on a desired paper sheet, comprising:

image printing means which has an image printing member and prints a toner image on the image printing member; and

control means for controlling a rotational speed of the image printing member by detecting the toner image printed on the image printing member by said image printing means,

wherein letting a rotating direction of the image printing member be a vertical direction, a first vertical magnification adjustment value be a value for adjusting a magnification of a toner image in the vertical direction which is printed on the image printing member, and a second vertical magnification adjustment value be a value for adjusting a magnification of an image in the vertical direction which is printed on the paper sheet, said control means executes feedback control on the rotational speed of the image printing member on the basis of the first vertical magnification adjustment value when a first mode of printing a toner image on the image printing member and correcting an image printing system is selected, and executes feedback control on the rotational speed of the image printing member on the basis of the first vertical magnification adjustment value and the second vertical magnification adjustment value when a second mode of

printing an image on a paper sheet by operating the image printing system is selected.

2. An apparatus according to claim 1, further comprising selecting means for selecting the first mode or
5 the second mode.

3. An apparatus according to claim 2, wherein said selecting means selects the first mode on the basis of a cumulative operating time or/and image printing count of said image printing means.

10 4. An apparatus according to claim 3, wherein when the operating time or/and image printing count of said image printing means has not reached a control target value, and the second mode is selected by said selecting means, said control means monitors whether the operating
15 time or/and image printing count of said image printing means has reached the control target value, and controls said selecting means to select the first mode if the operating time or/and image printing count of said image printing means has exceeded the control target value.

20 5. An apparatus according to claim 1, wherein said apparatus further comprises first detection means for detecting a positional offset of a toner image printed on the image printing member, and second detection means which is placed at a position offset from a position of said
25 first detection means by a predetermined distance in the vertical direction and detects a density of a toner image printed on the image printing member, and when the first

mode is executed, said control means computes a detection timing of a toner image by said second detection means on the basis of a timing when the toner image is detected by said first detection means.

5 6. An apparatus according to claim 5, wherein letting A be a distance from a position of a toner image at a time when the toner image is printed on the image printing member to a position of said first detection means, LS be a rotational speed of the image printing
10 member, and Ta be a detection timing of a toner image at said first detection means,

$$Ta = A/LS$$

and, letting B be a distance from the position of said first detection means to a position of said second
15 detection means, and Tb be a detection timing of a toner image at said second detection means,

$$Tb = Ta + B/LS$$

7. An image printing method of printing, on a desired paper sheet, an image printed on an image printing
20 member of an image printing system, wherein letting a rotating direction of the image printing member be a vertical direction, a first vertical magnification adjustment value be a value for adjusting a magnification of a toner image in the vertical direction which is printed
25 on the image printing member, and a second vertical magnification adjustment value be a value for adjusting a magnification of an image in the vertical direction which

is printed on the paper sheet,

feedback control on the rotational speed of the image printing member is executed on the basis of the first vertical magnification adjustment value when a toner image
5 is printed on the image printing member to correct the image printing system, and

feedback control on the rotational speed of the image printing member is executed on the basis of the first vertical magnification adjustment value and the second
10 vertical magnification adjustment value when a toner image is printed on a paper sheet by operating the image printing system.